



Attorney Docket No. 6661-000024/US/COB  
Application No. 10/621,380

*FW*

**THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventors: Yi Yeol LYU et al. Conf. No. 4059  
Application No.: 10/621,380 Group Art Unit: 1712  
Filing Date: July 18, 2003 Examiner: Margaret G. Moore  
Title: SILOXANE-BASED RESIN AND METHOD FOR FORMING  
INSULATING FILM BETWEEN INTERCONNECT LAYERS IN  
SEMICONDUCTOR DEVICES BY USING THE SAME

**REVOCATION AND SUBSTITUTION OF POWER OF  
ATTORNEY AND CHANGE OF ADDRESS**

Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

April 28, 2006

Sir:

**POWER OF ATTORNEY**

The Declaration submitted along with this application includes a Power of Attorney listing the attorneys of Birch, Stewart, Kolasch & Birch, LLP. If not already revoked or withdrawn, please hereby revoke the aforementioned attorneys and substitute the attorneys of Customer No. 30593, including the following attorneys of Harness, Dickey & Pierce, P.L.C., to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

John A. Castellano	Registration No. 35,094
Gary D. Yacura	Registration No. 35,416
Terry L. Clark	Registration No. 32,644
Donald J. Daley	Registration No. 34,313

**CORRESPONDENCE ADDRESS**

I request the Patent and Trademark Office to direct all correspondence and telephone calls relative to this application to Customer No. 30593, Harness, Dickey & Pierce, P.L.C., P.O. Box 8910, Reston, Virginia 20195, (703) 668-8000.

The undersigned is empowered with full Power of Attorney on behalf of the assignee, Samsung Electronics, Inc., by virtue of and as evidenced by an Assignment recorded in connection with parent application No. 10/105,723 (now U.S. Patent 6,623,711) at the United States Patent and Trademark Office at Reel 12998, Frame(s) 954. A copy of the recorded Assignment is enclosed for the convenience of the Office.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C

By: \_\_\_\_\_

John A. Castellano, Reg. No. 35,094

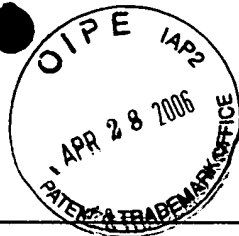
P.O. Box 8910  
Reston, Virginia 20195  
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JAC:pw

Enclosure:  
Recorded Assignment



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE



3811-0109P

AUGUST 20, 2002

PTAS

BIRCH, STEWART, KOLASCH & BIRCH, LLP  
JOSEPH A. KOLASCH  
P.O. BOX 747  
FALLS CHURCH, VA 22040-0747

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
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\*102130489A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
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THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/17/2002

REEL/FRAME: 012998/0954  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
LYU, YI YEOL

DOC DATE: 05/07/2002

ASSIGNOR:  
YIM, JIN BEONG

DOC DATE: 05/07/2002

ASSIGNOR:  
MAH, SANG KOOK

DOC DATE: 05/07/2002

ASSIGNOR:  
NAH, EUN JU

DOC DATE: 05/07/2002

ASSIGNOR:  
HWANG II, SUN

DOC DATE: 05/07/2002

ASSIGNOR:  
JEONG, HYUN DAM

DOC DATE: 05/07/2002

ASSIGNOR:  
KIM, JUNG HYUNG

DOC DATE: 05/07/2002

012998/0954 PAGE 2

ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD.  
MAETAN-3 DONG 416, PALDAL-GU,  
SUWON-SHI  
KYUNGKI-DO, REPUBLIC OF KOREA

442-742

SERIAL NUMBER: 10105723  
PATENT NUMBER:

FILING DATE: 03/27/2002  
ISSUE DATE:

MARCUS KIRK, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

06-21-2002

Atty. Docket No.: 3811-109P

Page 1 of 2



RECORDED 102130489

SHEET

To the Honorable Commissioner of Patents and Trademarks:  
Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

[FAMILY NAME (ALL CAPS), Given Name]

LYU, Yi Yeol

YIM, Jin Beong

MAH, Sang Kook

NAH, Eun Ju

Additional name(s) of conveying party(ies) attached?

☒ YES ☐ NO

## 2. Name and address of receiving party(ies)

Name: SAMSUNG ELECTRONICS CO., LTD.

Internal Address:

Street Address: Maetan-3 Dong 416, Paldal-Gu, Suwon-Shi

City: Kyungki-Do State: ZIP:

Country: Korea

Postal Code: 442-742

Additional name(s) & address(es) attached? ☐ YES ☒ NO

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other:

Execution Date: May 7, 2002

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s).

10/105,723

B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP

Street Address: P.O. BOX 747

City: FALLS CHURCH State: VA ZIP: 22040-0747

Country: USA

## 6. Total No. of applications/patents involved: One (1)

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Enclosed☒ Authorized to be charged to deposit account, if no fee attached.

8. Deposit account number: 02-2448

(Attach triplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Joseph A. Kolasch, #22,463

Name of Person Signing/Reg. No.

Signature

June 17, 2002

Date

Total number of pages including cover sheet, attachments, and document: Four (4)

06/20/2002 DIAZI 00000078 10105723

01 FC:581

40.00 OP

JAK/mks

(Rev. 02/11/02)

Attachment to  
RECORDATION FORM COVER SHEET

Continuation of Box 1--Name of conveying party(ies):

[FAMILY NAME (ALL CAPS), Family Name]

HWANG, Il Sun

JEONG, Hyun Dam

KIM, Jung Hyung

,

,

Continuation of Box 2--Name and address of receiving party(ies):

Continuation of Box 4--Application number(s) or patent number(s):

ATTORNEY DOCKET NO. 3811-109P

## BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

## ASSIGNMENT

Application No. 10/105,723Filed March 27, 2002Insert Name(s)  
of Inventor(s)WHEREAS, Yi Yeol LYU, Jin Heong YIMSang Kook MAH, Eun Ju NAHIl Sun HWANG, Hyun Dam JEONGJung Hyun-g KIMInsert Title  
of Invention(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in  
"SILOXANE-BASED RESIN AND METHOD FOR FORMING INSULATING FILM  
BETWEEN INTERCONNECT LAYERS IN SEMICONDUCTOR DEVICES BY  
USING THE SAME"for which an application for Letters Patent of the United States of America has been executed by the  
undersigned (except in the case of a provisional application).Insert Date  
of Signing of  
Applicationon May 7, 2002; andInsert Name  
of AssigneeWHEREAS, SAMSUNG ELECTRONICS CO., LTD.Insert Address  
of Assigneeof Maetan-3 Dong 416, Paldal-Gu, Suwon-Shi, Kyungki-Do 442-742, Republic of KoreaCHECK BOX  
IF APPROPRIATEits heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of  
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that  
may be granted therefor in the United States of America and  
☐ in any foreign countries.NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid,  
the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned  
has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said  
Assignee the full and exclusive right to the said invention in the United States of America, its territories,  
dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s)  
which may be granted therefor in the United States of America, its territories, dependencies and  
possessions, and if the box above is designated, in any and all foreign countries;and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or  
terms for which the same may be granted.

## Attorney Docket No.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

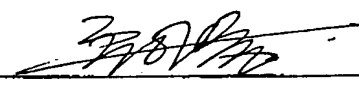
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

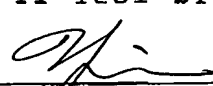
The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 2002.05.07Name of Inventor 

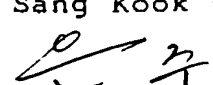
(signature) Yi Yeol LYU

Date 2002.05.07Name of Inventor 


(signature) Jin Heong YIM

Date 2002.05.07Name of Inventor 

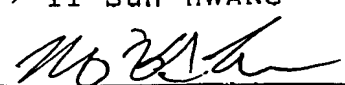
(signature) Sang Kook MAH

Date 2002.05.07Name of Inventor 

(signature) Eun Ju NAH

Date 2002.05.07Name of Inventor 

(signature) Il Sun HWANG

Date 2002.05.07Name of Inventor 

(signature) Hyun Dam JEONG

Date 2002.05.07Name of Inventor 

(signature) Jung Hyung KIM